

ABSTRACT OF THE DISCLOSURE

An image sensor includes a substrate containing photosensitive areas; an insulator spanning the substrate; and a first and second layer of a multi-layer metalization structure wherein the first layer forms the light shield regions
5 over portions of the photosensitive area as well as forming circuit interconnections and barrier regions to prevent spiking into the substrate or gates at contacts in the non-imaging area, and the second layer spanning the interconnections and barrier regions of the first layer only over the non-imaging area.